EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	37	(automatic$6 with discover$3 with web with services) and UDDI	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 22:33
L2	1	(automatic$6 with discover$3 with (new updat$3 chang$3) with web with services) and UDDI	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 22:35
L3	3	(automatic$6 with (discover$3 find$3 locat$3 determin$6) with (new updat$3 chang$3) with web with services) and UDDI	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 22:36
L4	87	((discover$3 find$3 locat$3 determin$6) with (new updat$3 chang$3) with web with services) and UDDI	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 22:36
L5	48	((discover$3 find$3 locat$3 determin$6) with (new updat$3 chang$3) with web with services) and UDDI and (((device client) with automatic$6) ((without "no") with user))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 23:47
L6	2	((discover$3 find$3 locat$3 determin$6) with (new updat$3 chang$3) with web with services) and UDDI and (((device client) with automatic$6) ((without "no") with user)) and (stb (set$1top with box) dvr (digital adj video adj recorder) tv$1anytime pvr pdr (personal adj (video digital) adj recorder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 23:16

EAST Search History

L7	2	"20020174117" and tmodel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 23:25
L8	2	"20020188589"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 23:25
L9	1	707/10.ccls. and ((discover$3 find$3 locat$3 determin$6) with (new updat$3 chang$3) with web with services) and UDDI and (((device client) with automatic$6) ((without "no") with user))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 23:48
L10	4	707/10.ccls. and ((discover$3 find$3 locat$3 determin$6) with (new updat$3 chang$3) with web with services) and UDDI	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 23:48
S1	415	(UDDI with (node server))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 13:40
S2	249	(UDDI with (node server)) and quer$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 13:41
S3	228	(UDDI with (node server)) and quer$4 and (web with service)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 13:41

EAST Search History

S4	15	(UDDI with (node server)) and quer$4 and ((identif$6 determin$6 find$3) with (web with service) with (new available))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 15:25
S5	73	(UDDI with (node server)) and quer$4 and ((identif$6 determin$6 find$3 discover$3) with (web with service) with (new available))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 14:14
S7	1	(UDDI with (node server)) and quer$4 and ((identif$6 determin$6 find$3 discover$3) with (web with service) with (new available)) and (stb (set$1top with box) dvr (digital adj video adj recorder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 14:15
S9	1	(UDDI with (node server)) and quer$4 and ((identif$6 determin$6 find$3 discover$3) with (web with service) with (new available list table)) and (stb (set$1top with box) dvr (digital adj video adj recorder) tv$1anytime)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 14:17
S10	13	(UDDI with (node server)) and quer$4 and ((identif$6 determin$6 find$3 discover$3) with (web with service)) and (stb (set$1top with box) dvr (digital adj video adj recorder) tv$1anytime)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 14:22
S11	5	(UDDI with (node server)) and quer$4 and ((identif$6 determin$6 find$3 discover$3) with (web with service)) and (stb (set$1top with box) dvr (digital adj video adj recorder) tv$1anytime) and (change)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 14:18
S12	0	(UDDI with (node server)) and quer$4 and ((identif$6 determin$6 find$3 discover$3) with (web with service)) and (stb (set$1top with box) dvr (digital adj video adj recorder) tv$1anytime) and (change with record)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 14:18

EAST Search History

S13	19	(UDDI with (node server)) and quer$4 and ((identif$6 determin$6 find$3 discover$3) with (web with service)) and (stb (set$1top with box) dvr (digital adj video adj recorder) tv$1anytime tv television)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 14:22
S14	6	S13 not S10	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 15:20
S15	73	(TV$1anytime (tv adj anytime)) with service	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 15:23
S16	9	((discover$4 track$3 find$3 identif$7 determin$6) with (TV$1anytime (tv adj anytime)) with service)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 15:21
S17	3	((TV$1anytime (tv adj anytime)) with service) and UDDI	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 15:23
S18	203	(UDDI with (node server)) and quer$4 and ((identif$6 determin$6 find$3 discover$3 track$3) with (web with service))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 15:26
S19	43	(UDDI with (node server)) and quer$4 and ((identif$6 determin$6 find$3 discover$3 track$3) with (web with service)) and t$1model	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 15:55

EAST Search History

S20	1	"20050198188" and lightweight	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 15:33
S21	2	"20050198188" and device	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/05 13:37
S22	13	(UDDI with (node server)) and quer$4 and ((identif$6 determin$6 find$3 discover$3 track$3) with (web with service)) and t$1model and taxonomy	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 15:55
S23	13	(UDDI with (node server)) and quer$4 and ((identif$6 determin$6 find$3 discover$3 track$3) with (web with service)) and t$1model and taxonomy	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/01 15:55
S24	27	(UDDI) and (automatic$6 with search$3 with service)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/05 13:38
S25	130	(UDDI) and (automatic$6 with (search$3 find$3 locat$3 discover$3) with service)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/05 13:39
S26	55	(UDDI) and (automatic$6 with (search$3 find$3 locat$3 discover$3) with web with service)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/05 13:39

EAST Search History

S27	9	(UDDI) and (automatic$6 with (search$3 find$3 locat$3 discover$3) with web with service) and t$1model	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/05 13:46
S28	0	(UDDI) and (automatic$6 with (search$3 find$3 locat$3 discover$3) with web with service) and t$1model and ((periodic$6 plan$4) with web with service with (update change))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/05 13:43
S29	0	(UDDI) and ((search$3 find$3 locat$3 discover$3) with web with service) and t$1model and ((periodic$6 plan$4) with web with service with (update change))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/05 13:43
S30	1	(UDDI) and (automatic$6 with (learn$3 search$3 find$3 locat$3 discover$3) with new with web with service) and t$1model	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/05 13:48
S31	2	"20050198188" and (user with intervention)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/05 13:52
S32	2	"20050198188" and (user with intervention with ("without" "no"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/05 13:52
S33	75	UDDI and (user with intervention with ("without" "no"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/05 13:52

EAST Search History

S34	61	UDDI and (user with intervention with ("without" "no")) and (discover$3 with web with service)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/05 13:56
S35	4	UDDI and (user with intervention with ("without" "no")) and (discover$3 with web with service) and t$1model	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/05 13:56
S36	2	"20070162947"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 17:27
S37	2	(UDDI with (node server)) and quer$4 and ((identif$6 determin$6 find$3 discover$3) with (web with service) with (new available)) and (stb (set$1top with box) dvr (digital adj video adj recorder) tv$1anytime pvr pdr (personal adj (digital video) adj recorder))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 17:30
S38	1	(UDDI with (node server)) and quer$4 and ((identif$6 determin$6 find$3 discover$3) with (web with service) with (new available)) and (stb (set$1top with box) dvr (digital adj video adj recorder) tv$1anytime)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 17:31
S39	102	UDDI and (stb (set$1top with box) dvr (digital adj video adj recorder) tv$1anytime) and (web with services)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 17:32
S40	78	UDDI and (stb (set$1top with box) dvr (digital adj video adj recorder) tv$1anytime) and (web with services) and quer$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 17:32

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S41	0	UDDI and (stb (set$1top with box) dvr (digital adj video adj recorder) tv$1anytime) and (web with services) and quer$4 and t$1model$	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 17:33
S42	1	UDDI and (stb (set$1top with box) dvr (digital adj video adj recorder) tv$1anytime pvr pdr (personal adj (video digital) adj recorder)) and (web with services) and quer$4 and t$1model$	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 17:35
S43	82	UDDI and (stb (set$1top with box) dvr (digital adj video adj recorder) tv$1anytime pvr pdr (personal adj (video digital) adj recorder)) and (web with services) and quer$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 17:35
S44	4	UDDI and (stb (set$1top with box) dvr (digital adj video adj recorder) tv$1anytime pvr pdr (personal adj (video digital) adj recorder)) and (web with services) and quer$4 and (tv$1anytime (tv adj anytime))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 17:37
S45	248	(tv$1anytime (tv adj anytime))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 17:38
S46	31	(tv$1anytime (tv adj anytime)) and (web with services)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 17:55
S47	64	(tv$1anytime (tv adj anytime)) and (discover$3 web with services)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 17:55

EAST Search History

S48	5	(tv$1anytime (tv adj anytime)) and (discover$3 with web with services)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 22:30

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1 Services: Crawling multiple UDDI business registries

Eyhab Al-Masri, Qusay H. Mahmoud

May 2007 **Proceedings of the 16th international conference on World Wide Web WWW '07**

Publisher: ACM Press

Full text available: pdf(47.82 KB) Additional Information: full citation, abstract, references, index terms

As Web services proliferate, size and magnitude of UDDI Business Registries (UBRs) are likely to increase. The ability to discover Web services of interest then across multiple UBRs becomes a major challenge specially when using primitive search methods provided by existing UDDI APIs. Clients do not have the time to endlessly search accessible UBRs for finding appropriate services particularly when operating via mobile devices. Finding services of interest should be time effective and highly ...

Keywords: UDDI, UDDI business registries, crawler, discovery, web services

2 Services: Discovering the best web service

Eyhab Al-Masri, Qusay H. Mahmoud

May 2007 **Proceedings of the 16th international conference on World Wide Web WWW '07**

Publisher: ACM Press

Full text available: pdf(102.25 KB) Additional Information: full citation, abstract, references, index terms

Major research challenges in discovering Web services include, provisioning of services across multiple or heterogeneous registries, differentiating between services that share similar functionalities, improving end-to-end Quality of Service (QoS), and enabling clients to customize the discovery process. Proliferation and interoperability of this multitude of Web services have lead to the emergence of new standards on how services can be published, discovered, or used (i.e. UDDI, WSDL, SOAP). ...

Keywords: QoS, UDDI, UDDI business registries, UDDI extension, quality of services, tModel, web services

3 Full papers (written in English): Semantics-enriched QoS policies for web service interactions

Diego Zuquim Guimarães Garcia, Maria Beatriz Felgar de Toledo
November 2006 **Proceedings of the 12th Brazilian symposium on Multimedia and the web WebMedia '06**
Publisher: ACM Press
Full text available: pdf(400.41 KB) Additional Information: full citation, abstract, references, index terms

Web service technology provides an infrastructure for developing distributed systems and performing electronic business operations within and across organizational boundaries. It is still evolving. Currently, it is lacking mechanisms to deal with Quality of Service (QoS). Service consumer requirements may include functional and non-functional aspects. The Web Services Description Language (WSDL) and Universal Description Discovery & Integration (UDDI) standards support the specification, publica ...

Keywords: ARL, OWL, UDDI, WS-policy, ontology, policy, quality of service, rule, web service, web service discovery, web service specification

4 Communication technology II - Internet, services, and architectures: A query federation of UDDI registries
Pornpong Rompothong, Twittie Senivongse
September 2003 **Proceedings of the 1st international symposium on Information and communication technologies ISICT '03**
Publisher: Trinity College Dublin
Full text available: pdf(289.96 KB) Additional Information: full citation, abstract, references

Cooperation between multiple service registries is a desirable feature for large-scale distributed systems where there are several instances of such registries housing advertisement entries for various businesses and services. By federating service registries, advertisement entries in one registry can be discovered by service consumers who query via other remote registries. This paper presents an extension for a query federation of UDDI registries within Web Service environment. This allows quer ...

Keywords: UDDI, Web service, federation, service discovery

5 Industrial sessions: beyond relational tables: An ebXML infrastructure implementation through UDDI registries and RosettaNet PIPs
Asuman Dogac, Yusuf Tambag, Pinar Pembecioglu, Sait Pektas, Gokce Laleci, Gokhan Kurt, Serkan Toprak, Yildiray Kabak
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**
Publisher: ACM Press
Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references, citings, index terms

Today's Internet based businesses need a level of interoperability which will allow trading partners to seamlessly and dynamically come together and do business without ad hoc and proprietary integrations. Such a level of interoperability involves being able to find potential business partners, discovering their services and business processes, and conducting business "on the fly". This process of dynamic interoperation is only possible through standard B2B frameworks. Indeed a number of B2B ele ...

6 Web service composition with case-based reasoning
Benchaphon Limthanmaphon, Yanchun Zhang
January 2003 **Proceedings of the 14th Australasian database conference - Volume 17 ADC '03**
Publisher: Australian Computer Society, Inc.

Full text available: pdf(77.74 KB) Additional Information: full citation, abstract, references, citings, index terms

To run a smart E-Business or provide efficient Web service, a web services composition model is needed. Web services composition refers to the process of collaborating the heterogeneous web services. This paper presents a model of web services composition by using Case-Based Reasoning (CBR) techniques. CBR is applied in the process of service discovery, which is the crucial composition process. Our service composition model integrates the two behaviours of proactive and reactive service composit ...

Keywords: case-based reasoning, web service, web service discovery

7 Quality of service: Towards context-aware adaptable web services

Markus Keidl, Alfons Kemper
May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters WWW Alt. '04**
Publisher: ACM Press

Full text available: pdf(142.73 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we present a context framework that facilitates the development and deployment of context-aware adaptable Web services. Web services are provided with context information about clients that may be utilized to provide a personalized behavior. Context is extensible with new types of information at any time without any changes to the underlying infrastructure. Context processing is done by Web services, context plugins, or context services. Context plugins and context services pre- a ...

Keywords: automatic context processing, context, extensibility, extensible framework, information services, service platform, web services

8 Articles: Semantically enriched web services for the travel industry

A. Dogac, Y. Kabak, G. Laleci, S. Sinir, A. Yildiz, S. Kirbas, Y. Gurcan
September 2004 **ACM SIGMOD Record**, Volume 33 Issue 3
Publisher: ACM Press
Full text available: pdf(129.78 KB) Additional Information: full citation, abstract, references, citings

Today, the travel information services are dominantly provided by Global Distribution Systems (GDS). The Global Distribution Systems provide access to real time availability and price information for flights, hotels and car rental companies. However GDSs have legacy architectures with private networks, specialized hardware, limited speed and search capabilities. Furthermore, being legacy systems, it is very difficult to interoperate them with other systems and data sources. For these reasons, ...

9 Session 6: Customizable description and dynamic discovery for web services

Wooyoung Kim, Alan H. Karp
May 2004 **Proceedings of the 5th ACM conference on Electronic commerce EC '04**
Publisher: ACM Press
Full text available: pdf(188.80 KB) Additional Information: full citation, abstract, references, index terms

We present a framework for developing ontologies suitable for a dynamic environment, such as that for web services, and describe itsuse in a commercial system for resource discovery. This framework recognizes the importance of standards but allows for evolution in away that doesn't disrupt those adhering to the standards. The framework is based on the notion of discoverable resources which offer extensibility and security. The specific ontology we use in thesystem includes some salient features, ...

Keywords: ontologies, service description and discovery, web services

10 A natural language model for managing TV-Anytime information in mobile environments

Anastasia Karanastasi, G. Kazasis, Stavros Christodoulakis
September 2005 **Personal and Ubiquitous Computing**, Volume 9 Issue 5
Publisher: Springer-Verlag
Full text available: pdf(366.25 KB) Additional Information: full citation, abstract

The TV-Anytime standard describes the structures of categories of digital TV program metadata, as well as user profile metadata for TV programs. We describe a natural language (NL) model for the users to interact with the TV-Anytime metadata and preview TV programs from their mobile devices. The language utilises completely the TV-Anytime metadata specifications (upper ontologies), as well as domain-specific ontologies. The interaction model does not use clarification dialogues, but it uses the ...

Keywords: Ambiguity, Metadata, Natural language, Ontology, Resolution, TV-Anytime

11 A model for web services discovery with QoS

Shuping Ran
March 2003 **ACM SIGecom Exchanges**, Volume 4 Issue 1
Publisher: ACM Press
Full text available: pdf(182.02 KB) Additional Information: full citation, abstract, references, citings, index terms

Web services technology has generated a lot interest, but its adoption rate has been slow. This paper discusses issues related to this slow take up and argues that quality of services is one of the contributing factors. The paper proposes a new Web services discovery model in which the functional and non-functional requirements (i.e. quality of services) are taken into account for the service discovery. The proposed model should give Web services consumers some confidence about the quality of se ...

Keywords: UDDI, UDDI extension, model, quality of services, tModel, web services discovery

12 Monitoring and dynamic binding: Towards recovering the broken SOA triangle: a software engineering perspective

Anton Michlmayr, Florian Rosenberg, Christian Platzer, Martin Treiber, Schahram Dustdar
September 2007 **2nd international workshop on Service oriented software engineering: in conjunction with the 6th ESEC/FSE joint meeting IW-SOSWE '07**
Publisher: ACM Press
Full text available: pdf(485.19 KB) Additional Information: full citation, abstract, references

Service-oriented computing (SOC) receives a lot of attention from academia and industry as a means to develop flexible and dynamic software solutions. Facing the facts, service-oriented solutions are by far not as dynamic and adaptable as they claim to be. The initial idea of the SOA triangle to *publish-find-bind-execute* a service is often not implemented as envisioned due to a number of missing or wrongly-used concepts. In our ongoing VReSCO project, a service-oriented infrastructure ...

13 Semantic web: A probabilistic semantic approach for discovering web services

Jiangang Ma, Jinli Cao, Yanchun Zhang
May 2007 **Proceedings of the 16th international conference on World Wide Web WWW '07**
Publisher: ACM Press
Full text available: pdf(238.62 KB) Additional Information: full citation, abstract, references, index terms

Service discovery is one of challenging issues in Service-Oriented computing. Currently, most of the existing service discovering and matching approaches are based on keywords-based strategy. However, this method is inefficient and time-consuming. In this paper, we present a novel approach for discovering web services. Based on the current dominating mechanisms of discovering and describing Web Services with UDDI and WSDL, the proposed approach utilizes Probabilistic Latent Semantic Analysis ...

Keywords: web service, web services matching

14 Web technologies and applications (WTA): Pollock: automatic generation of virtual web services from web sites
Yi-Hsuan Lu, Yoojin Hong, Jinesh Varia, Dongwon Lee
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**
Publisher: ACM Press
Full text available: pdf(318.23 KB) Additional Information: full citation, abstract, references, citings, index terms

As the usage of *Web Services* proliferates dramatically, new tools to help quickly generate web services are needed. In this paper, we propose a methodology that helps to *automatically* generate Web Services from the FORM-based query interfaces of a web site. Since the majority of web data are rather "hidden" behind such a FORM interface, we believe turning such a human-oriented query interface into machine-oriented web services is an important problem. Toward this goal, we adopt the ...

Keywords: translation, web services, wrappers

15 A Linux DVR is no myth-it's MythTV!
James Turner
December 2005 **Linux Journal**, Volume 2005 Issue 140
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(12.48 KB) Additional Information: full citation, abstract, index terms

Although commercial Digital Video Recorders (like TiVo) charge more and restrict your options, Linux alternatives are free and rock!

16 E-commerce: A software framework for matchmaking based on semantic web technology
Lei Li, Ian Horrocks
May 2003 **Proceedings of the 12th international conference on World Wide Web WWW '03**
Publisher: ACM Press
Full text available: pdf(170.49 KB) Additional Information: full citation, abstract, references, citings, index terms

An important objective of the Semantic Web is to make Electronic Commerce interactions more flexible and automated. To achieve this, standardization of ontologies, message content and message protocols will be necessary.In this paper we investigate how Semantic and Web Services technologies can be used to support service advertisement and discovery in e-commerce. In particular, we describe the design and implementation of

a service matchmaking prototype which uses a DAML-S based ontology and a D ...

Keywords: ontologies, semantic web, web services

17 Industrial sessions: Web Services: Enabling sovereign information sharing using Web Services

Rakesh Agrawal, Dmitri Asonov, Ramakrishnan Srikant

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data SIGMOD '04**

Publisher: ACM Press

Full text available: pdf(129.11 KB) Additional Information: full citation, abstract, references, citings

Sovereign information sharing allows autonomous entities to compute queries across their databases in such a way that nothing apart from the result is revealed. We describe an implementation of this model using web services infrastructure. Each site participating in sovereign sharing offers a data service that allows database operations to be applied on the tables they own. Of particular interest is the provision for binary operations such as relational joins. Applications are developed by combi ...

18 TV anytime as an application scenario for MPEG-7

Silvia Pfeiffer, Uma Srinivasan

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia MULTIMEDIA '00**

Publisher: ACM Press

Full text available: pdf(318.04 KB) Additional Information: full citation, abstract, references, index terms

The ISO/MPEG group has identified a wide range of application scenarios [1] for their emerging MPEG-7 standard on audio-visual metadata. TV Anytime with their vision of future digital TV services [2] encompasses a large number of them. As TV Anytime has also identified metadata as one of the key requirements to realize their vision, MPEG-7 is the natural candidate to fill that role. Here, we describe technically how metadata for the TV Anytime scenario can be created using MPEG-7.

19 Relation-Based Case Retrieval Approach for Web Services Selection

S. M. F. D. Syed Mustapha

December 2006 **Proceedings of the 2006 IEEE/WIC/ACM International Conference on Web Intelligence WI '06**

Publisher: IEEE Computer Society

Full text available: pdf(171.82 KB) Additional Information: full citation, abstract, index terms

Web service selection has been a challenging task for automated workflow composition. This is mainly due to the heterogeneity of the web service structure, non-standardization of registry format and complexity in capturing the semantic part of the web service functionalities. Relation-based Case Retrieval (RCR) establishes the relationship between cases and the web service invocation information. The cases contain the business proposals and the business operations in which they are measured usin ...

20 ServiceGlobe: distributing E-services across the internet

Markus Keidl, Stefan Seltzsam, Konrad Stocker, Alfons Kemper

August 2002 **Proceedings of the 28th international conference on Very Large Data Bases - Volume 28 VLDB '2002**

Publisher: VLDB Endowment

Full text available: pdf(88.39 KB) Additional Information: full citation, references, index terms

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Relevance scale

21 A service-oriented monitoring registry

Bahman Kalali, Paulo Alencar, Don Cowan
October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research CASCON '03**
Publisher: IBM Press

Full text available: pdf(217.87 KB) Additional Information: full citation, abstract, references, citings, index terms

Web services are software modules that expose their functionality over the Internet via well-defined interfaces. Although Web services are promising technologies in that they facilitate application-to-application communication over the Internet, they still rely on traditional distributed computing communication models such as the remote procedure call, in which a Web service requestor needs to have complete knowledge of a Web service provider interface. If a Web service requestor did not use the ...

22 Reputation and endorsement for web services

E. Michael Maximilien, Munindar P. Singh
December 2001 **ACM SIGecom Exchanges**, Volume 3 Issue 1
Publisher: ACM Press

Full text available: pdf(70.18 KB) Additional Information: full citation, abstract, references, citings, index terms

The web services set of standards promise the dynamic creation of loosely coupled systems, such as those that are required for e-commerce applications. However, current approaches for web services lack key functionality, especially to locate, select, and bind services meeting certain criteria of quality. We propose an approach wherein software agents assist in this task by disseminating reputations and endorsements through a specialized agency, which augments the capabilities of current standard ...

Keywords: e-commerce, software agents, web services

23 P2PIM workshop: A peer-to-peer approach to Geospatial Web Services discovery

Ma Xiujun, Li Gang, Xie Kunqing, Shuai Meng
May 2006 **Proceedings of the 1st international conference on Scalable information systems InfoScale '06**
Publisher: ACM Press

Full text available: pdf(105.07 KB) Additional Information: full citation, abstract, references, index terms

Geospatial Web Services are data-oriented services, which include a variety of complex data models and metadata. Discovering the appreciate services with related geospatial datasets among a large number of available ones is a key task in the Geospatial Web Services domain. This paper proposes a peer-to-peer (P2P) based approach for discovering geospatial Web Services. We characterize the geospatial Web Services profile as a set of keywords including the metadata attributes, the minimum bounding ...

Keywords: Peer R+ Tree, geospatial web service discovery, peer-to-peer, spatial data infrastrucure

24 Session 6: web services II: An open and dynamical service oriented architecture for supporting mobile services

Elena Sanchez-Nielsen, Sandra Martin-Ruiz, Jorge Rodriguez-Pedrianes

July 2006 **Proceedings of the 6th international conference on Web engineering ICWE '06**

Publisher: ACM Press

Full text available: pdf(425.17 KB) Additional Information: full citation, abstract, references, index terms

Mobile services (m-services) play an important role in daily life and work of modern societies. Current service oriented architectures (SOA) are widely used to offer Web Services on wired networks. However, no significant research has been done in m-services field to provide availability service and dynamical discovery to mobile users. Nowadays, mobile devices are characterized by limited resources such as processing power, memory, display screen and connection bandwidth. In this context, we pro ...

Keywords: dynamical m-services invocation, m-services architecture, mobile and ubiquitous computing, service oriented architecture

25 Semantic-based resource discovery, retrieval and composition (SDRC): SNet: skip graph based semantic web services discovery

Jianjun Yu, Hao Su, Gang Zhou, Ke Xu

March 2007 **Proceedings of the 2007 ACM symposium on Applied computing SAC '07**

Publisher: ACM Press

Full text available: pdf(235.87 KB) Additional Information: full citation, abstract, references, index terms

This paper presents the design of SNet system, which is a P2P overlay for Semantic Web Services discovery. SNet differs from previous P2P Web Services discovery systems in that it supports complex search with its locality-preserving feature based on Skip Graph. To guarantee efficient and semantic service discovery, SNet schemes WSDL-S as Semantic Web Services description language and extracts its semantic attributes as indexing keys in Skip Graph so that similar keys are aggregated to keep th ...

Keywords: peer-to-peer, skip graph, web services discovery

26 Research articles and surveys: A snapshot of public web services

Jianchun Fan, Subbarao Kambhampati

March 2005 **ACM SIGMOD Record**, Volume 34 Issue 1

Publisher: ACM Press

Full text available: pdf(1.89 MB) Additional Information: full citation, abstract, references, index terms

Web Service Technology has been developing rapidly as it provides a flexible application-to-application interaction mechanism. Several ongoing research efforts focus on various

aspects of web service technology, including the modeling, specification, discovery, composition and verification of web services. The approaches advocated are often conflicting---based as they are on differing expectations on the current status of web services as well as differing models of their future evolution. One wa ...

27 On automating Web services discovery

Boualem Benatallah, Mohand-Said Hacid, Alain Leger, Christophe Rey, Farouk Toumani

March 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 14 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(250.49 KB) Additional Information: full citation, abstract

One of the challenging problems that Web service technology faces is the ability to effectively discover services based on their capabilities. We present an approach to tackling this problem in the context of description logics (DLs). We formalize service discovery as a new instance of the problem of rewriting concepts using terminologies. We call this new instance the *best covering problem*. We provide a formalization of the *best covering problem* in the framework of DL-based ontolo ...

Keywords: Description logics, Discovery, Hypergraphs, Semantic matchmaking, Web services

28 Content management: Design and implementation of a distributed content management system

C. D. Cranor, R. Ethington, A. Sehgal, D. Shur, C. Sreenan, J. E. van der Merwe

June 2003 **Proceedings of the 13th international workshop on Network and operating systems support for digital audio and video NOSSDAV '03**

Publisher: ACM Press

Full text available: pdf(98.80 KB) Additional Information: full citation, abstract, references, index terms

The convergence of advances in storage, encoding, and networking technologies has brought us to an environment where huge amounts of continuous media content is routinely stored and exchanged between network enabled devices. Keeping track of (or managing) such content remains challenging due to the sheer volume of data. Storing "live" continuous media (such as TV or radio content) adds to the complexity in that this content has no well defined start or end and is therefore cumbersome to deal wit ...

Keywords: continuous media storage, distributed content management

29 B2B e-commerce and enterprise integration: The development and evaluation of exception handling mechanisms for order fulfillment process based on BPEL4WS

Fu-ren Lin, Hsiang-chin Chang

August 2005 **Proceedings of the 7th international conference on Electronic commerce ICEC '05**

Publisher: ACM Press

Full text available: pdf(426.00 KB) Additional Information: full citation, abstract, references, index terms, review

The advance of Internet technology fosters the order fulfillment process in a supply chain across heterogeneous information systems. In order to monitor states between partners in the process, this study develops exception handling mechanisms based on Web service stack. After detecting exceptions, the first step is to make use of the fault and compensation handlers provided by the BPEL4WS (Business Process Execution Language for Web Services) specification to roll back planned or even executed b ...

Keywords: BPEL4WS, Web service, exception handling, resource management, supply chain management

30 Special topic section on peer to peer data management: DBGlobe: a service-oriented P2P system for global computing

Evaggelia Pitoura, Serge Abiteboul, Dieter Pfoser, George Samaras, Michalis Vazirgiannis
September 2003 **ACM SIGMOD Record**, Volume 32 Issue 3

Publisher: ACM Press

Full text available: pdf(282.99 KB) Additional Information: full citation, abstract, references, citings

The challenge of peer-to-peer computing goes beyond simple file sharing. In the DBGlobe project, we view the multitude of peers carrying data and services as a superdatabase. Our goal is to develop a data management system for modeling, indexing and querying data hosted by such massively distributed, autonomous and possibly mobile peers. We employ a service-oriented approach, in that data are encapsulated in services. Direct querying of data is also supported by an XML-based query language. In t ...

Keywords: global computing, metadata, peer-to-peer computing, peer-to-peer databases, pervasive computing, services, ubiquitous computing

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